

COIL FOR COOLANT CIRCULATION, METHOD FOR MAKING SAME  
AND REACTOR COMPRISING SAME

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Abstract of the Disclosure

This invention relates to a coil comprising a first helical tube segment  
10 (511) and a second helical tube segment (512, 513) extending, parallel to the  
first helical segment (511), between a distributor (53) and a manifold (54), said  
first and second helical segments (511, 512, 513) being centred on a common  
geometrical axis ( $X_5$ ), with substantially the same bending radius ( $R_1$ ) and  
nested, such that they form together a globally cylindrical bundle (51). The  
15 method comprises a step which consists in interleaving the helical tube  
segments (511-513) so as to form a globally cylindrical bundle. The invention  
also concerns a reactor equipped with such a coil which can be used for treating  
a viscous medium or for carrying out chemical reactions, such as 6-6 polyamide  
polymerization.

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